module, a USB/USB+ hub, and an external functions unit; and a <u>serial</u> bus coupling the PC to the bus monitor and control module.

- 36. (Amended) The [apparatus] system of claim 32, wherein the hub provides at least one USB port and at least one USB+ port.
- 37. (Amended) The [apparatus] system of claim 32, wherein the external functions unit provides at least one serial port.
- 38. (Amended) The [apparatus] <u>system</u> of claim 37, wherein the external function unit provides at least one parallel port.
- 39. (Amended) The [apparatus] <u>system</u> of claim 37, wherein the external function unit provides at least one <u>modem port.</u>
- 40. (Amended) The [apparatus] <u>system</u> of claim 37, wherein the external function unit provides at least one application specific port.
- 41. (Amended) The [apparatus] <u>system</u> of claim 37, wherein the external function unit provides at least one network port.
- 42. (Amended) The [apparatus] <u>system</u> of claim 37, wherein the external function unit provides at least one Internet port.
- 43. (Amended) A method for expanding an interface to a computer, comprising: providing a <u>serial</u> communication link to the computer; providing a device for coupling to the <u>serial</u> communication link, including:

providing a backplane with at least one expansion slot and with an upstream connector for coupling to the <u>serial</u> communication link; and



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CLEAN VERSION OF PENDING CLAIMS

ACY SUPPORT

A device, comprising: 1. (Amended)

a backplane with at least one expansion slot and with an upstream connector for connecting with a computer via a serial bus, wherein the device is external to the computer; and at least one expansion card for coupling with the expansion slot, the expansion card including at least one port to provide an interface with the computer.



- The device of claim 1, wherein the at least one expansion card includes at least one USB+ 2. port.
- 3. The device of claim 2, wherein the at least one expansion card includes at least one USB port.
- The device of claim 1, wherein the at least one expansion card includes at least one serial 4. port.
- 5. The device of claim 1, wherein the at least one expansion card includes at least one parallel port.
- 6. The device of claim 1, wherein the at least one expansion card includes at least one application specific port.
- 7. The device of claim 1, wherein at least one the expansion card includes: at least one USB+ port; at least one RS232 serial port; and at least one IEEE 1284 parallel port.
- The device of claim 1, wherein the at least one expansion card further includes at least 8.

one modem connector.

- 9. The device of claim 1, wherein the at least one expansion card further includes at least one network connector.
- 10. The device of claim 1, wherein the at least one expansion card further includes at least one Interact connector.
- 11. The device of claim 1, wherein the backplane includes a master slot coupled to at least one slave slot via a communication link.
- 12. The device of claim 1, further including a port for providing UPS status and control communication.
- 13. An apparatus, comprising:
 - a control module;
- a hub for providing USB/USB+ outputs, the hub being coupled to the control module; and
- an external functions unit for providing outputs, the external functions unit being coupled to the hub.
- 14. (Amended) The apparatus of claim 13, wherein the control module includes a port for providing a serial communication link to a computer.
- 15. (Amended) The apparatus of claim 14, wherein the communication link includes a USB link and further includes power.
- 16. The apparatus of claim 13, wherein the control module includes at least one port for providing UPS status and control communication.



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- 17. The apparatus of claim 13, wherein the external functions unit provides at least one serial port.
- 18. The apparatus of claim 17, wherein the external function unit provides at least one parallel port.
- 19. The apparatus of claim 13, wherein the external functions unit provides at least one application specific control.
- 20. The apparatus of claim 13, wherein the external function unit provides at least one modem port.
- 21. The apparatus of claim 13, wherein the external function unit provides at least one network port.
- 22. The apparatus of claim 13, wherein the external function unit provides at least one Internet port.
- 23. The apparatus of claim 13, further including an uninterruptible power supply (UPS) coupled to and controlled and monitored by the control module.
- 24. The apparatus of claim 23, wherein the UPS includes:
 an alternating current (AC) to direct current (DC) converter to receive an AC power signal from an external source;
 - a battery coupled to the AC/DC converter; and
- a DC/DC converter to convert a DC signal of the AC/DC converter into at least a first predetermined DC voltage for use by a device external to the apparatus.
- 25. The apparatus of claim 24, wherein the UPS further includes:



a charger circuit coupled between the AC/DC converter and the battery to charge the battery from an incoming power signal; and

a power conditioning circuit coupled to the AC/DC converter to pass the incoming power signal through to an output node.

- 26. The apparatus of claim 25, wherein the UPS further includes:
 - a DC/AC inverter coupled to the battery; and
- a switch coupled between the DC/AC inverter and the power conditioning circuit to select which of the battery and the power conditioning circuit can supply power to the output node.
- 27. The apparatus of claim 23, wherein the bus control module is coupled to monitor subunits of the UPS and controls the switch.
- 28. The apparatus of claim 23, further including a plurality of switches independently controlled by the bus control module to select which of a plurality of output lines are supplied power by the UPS.
- 29. The apparatus of claim 23, further including a housing containing the UPS, bus control module and the bus hub.
- 30. The apparatus of claim 29, wherein the housing further includes a plurality of expansion slots.
- 31. The apparatus of claim 29, wherein the housing includes connection points for coupling an expansion module to the housing.
- 32. A system comprising:
 - a legacy free personal computer (PC);
 - a housing containing an uninterruptible power supply (UPS), a bus monitor and control

module, a USB/USB+ hub, and an external functions unit; and a serial bus coupling the PC to the bus monitor and control module.

- 33. The system of claim 32, wherein the bus is a Universal Serial Bus (USB).
- 34. The system of claim 32, wherein the bus monitor and control module distributes direct current (DC) power to the PC over the bus.
- 35. The system of claim 32, wherein the control module includes at least one port for providing UPS status and control communication.
- 36. (Amended) The system of claim 32, wherein the hub provides at least one USB port and at least one USB+ port.
- 37. (Amended) The system of claim 32, wherein the external functions unit provides at least one serial port.
- 38. (Amended) The system of claim 37, wherein the external function unit provides at least one parallel port.
- 39. (Amended) The system of claim 37, wherein the external function unit provides at least one modem port.
- 40. (Amended) The system of claim 37, wherein the external function unit provides at least one application specific port.
- 41. (Amended) The system of claim 37, wherein the external function unit provides at least one network port.





- 42. (Amended) The system of claim 37, wherein the external function unit provides at least one Internet port.
- 43. (Amended) A method for expanding an interface to a computer, comprising:

 providing a serial communication link to the computer;

 providing a device for coupling to the serial communication link, including:

 providing a backplane with at least one expansion slot and with an upstream connector for coupling to the serial communication link; and

 providing at least one expansion card for coupling with the expansion slot, including providing at least one port as an interface for the computer.
- 44. The method of claim 43, wherein providing at least one expansion card includes providing at least one USB port.
- 45. The method of claim 43, wherein providing at least one expansion card includes providing at least one USB+ port.
- 46. The method of claim 43, wherein providing at least one expansion card includes providing at least one serial port.
- 47. The method of claim 43, wherein providing at least one expansion card includes providing at least one parallel port.
- 48. The method of claim 43, wherein providing at least one expansion card includes providing at least one application specific port.
- 49. The method of claim 43, wherein providing at least one expansion card includes providing at least one Interact connection.

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- 50. The method of claim 43, wherein providing at least one expansion card includes providing at least one modern connection.
- 51. The method of claim 43, wherein providing at least one expansion card includes providing at least one network connection.
- 52. (New) A device for expanding a computer interface, comprising:
 an upstream connector for connecting to a computer through a Universal Serial Bus
 (USB) using a USB protocol, wherein the device is external to the computer;
 a PCI bus structure having a PCI protocol;
- a bus control module connected to the upstream connector and to the PCI bus structure, wherein the bus control module is adapted to provide a protocol conversion between the USB protocol and the PCI bus protocol; and
 - a master slot and at least one slave slot connected to the PCI bus structure.
- 53. (New) A method for expanding a computer interface, comprising:

 providing PCI bus structure in a device external to a computer, wherein the PCI bus structure has a PCI bus protocol;

providing a master expansion slot and at least one slave expansion slot connected to the PCI bus structure;

using a USB protocol to communicate between the device and the computer; and converting the USB protocol to the PCI bus protocol.